

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date:
22 January 2004 (22.01.2004)

PCT

(10) International Publication Number
WO 2004/008710 A1

(51) International Patent Classification⁷: H04L 29/06

[CN/CN]; 88 Youkeyuan Lu, Hongshan District, Wuhan, Hubei 430074 (CN).

(21) International Application Number:
PCT/CN2003/000540

(74) Agent: LIU, SHEN & ASSOCIATES; A0601, Huibin Building, No.8 Beichen Dong Street, Chaoyang District, Beijing 100101 (CN).

(22) International Filing Date: 7 July 2003 (07.07.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
PCT/CN02/00503 17 July 2002 (17.07.2002) CN

(71) Applicant (for all designated States except US): WUHAN FIBERHOME NETWORKS CO., LTD. [CN/CN]; 88 Youkeyuan Lu, Hongshan District, Wuhan, Hubei 430074 (CN).

(72) Inventor; and

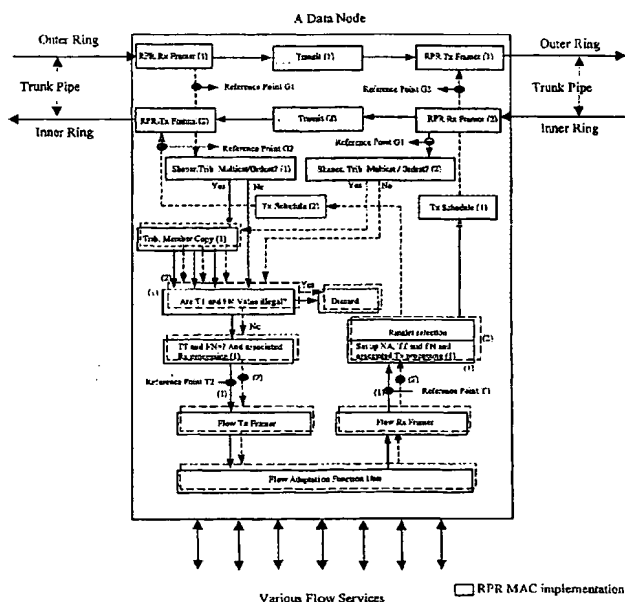
(75) Inventor/Applicant (for US only): YU, Shaohua

(81) Designated States (national): AE, AG, AL, AM, AT (utility model), AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ (utility model), DE (utility model), DK, DM, DZ, EC, EE (utility model), EE, ES, FI (utility model), FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK (utility model), SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),

[Continued on next page]

(54) Title: AN IMPLEMENTATION METHOD ON MULTI-SERVICE FLOW OVER RPR AND APPARATUS THEREFOR



(57) Abstract: This technology handles Multiple Services Flow (MSF) Based on RPR and a way of multi-service flow over RPR. MSF is defined to work at the client of RPR MAC layer and uses Fairness Algorithm (FA) of RPR MAC to support services of Class A, Class B and Class C. MSF is used in configurations where flow based service is managed from provisioning. Architecturally, the link and broadcast topologies are supported also. The features of flow (Service, just like Ethernet, Frame Relay and G.702 etc) based 1+1, 1:1 and 1:N protection within 50 ms, flow (or Service flow) based BW management with symmetry and asymmetry, flow based multicast and Frame Sequence Number for Performance Monitoring of flow are highlighted in this patent.

Tx and Rx Diagram of a Data Node

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European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

— *with international search report*

INTERNATIONAL SEARCH REPORT

International application No.

PCT/CN 03/00540

A. CLASSIFICATION OF SUBJECT MATTER

IPC⁷: H04L29/06

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC⁷: H04L29/06

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

CNPAT: IPC as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPODOC, WPI, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	Proposed Draft Standard For Information Technology Telecommunications and information exchange between systems Local and metropolitan area networks Specific requirements- Part 17: Resilient packet ring access method and physical layer Specification 14 Jan. 2002(14.01.02) See page 16, line 28-page19, page 53-58, 67-74	1-6, 21, 34, 35, 41-46, 61, 70
A		7-20, 22-33, 36-40, 47- 60, 62-69, 71-74
A	WO9528779A(DSC COMMUNICATIONS CORPORATION)26 Oct 1995 (26.10.95) See the abstract	1-74

☐ Further documents are listed in the continuation of Box C. ☒ See patent family annex.

* Special categories of cited documents:	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
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"L" document which may throw doubts on priority claim (S) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&" document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search
25 Jul 2003(25.07.2003)

Date of mailing of the international search report
04 SEP 2003(04.09.03)

Name and mailing address of the ISA/CN
6 Xitucheng Rd., Jimen Bridge, Haidian District,
100088 Beijing, China
Facsimile No. 86-10-62019451

Authorized officer

GENG XIAOBANG

Telephone No. 86-10-62093786

INTERNATIONAL SEARCH REPORT

Information patent family members

Search request No.

PCT/CN03/00540

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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